

SANYO

HCFC-Free Ultra-Low Temperature Freezer





Temperature (Ambient temp. 30°C)

-86°C

Effective capacity

483 Liter/17.1 cu.ft.

320 pcs. 2" inventory boxes

Large capacity Ultra-Low Freezer with robust cooling performance

- Safe operation with advanced refrigeration system
- Improved accessibility
- Quiet operation
- Enhanced security
- The inner doors are removable for cleaning and defrosting
- Can hold up to 320 pcs. of 2-inch boxes or 192 pcs. of 3-inch boxes

EVOLUTIONARY DESIGN

- The newly developed refrigeration system and the freezer structure offer a quiet experimental environment.
- Achieves 10% higher energy conservation than previous model. (For model rated 220V, 50Hz)
- The newly developed back cover combinedwith new aerodynamically designed and placed components in the refrigera-

tion compartment provide superior air flow, making it possible to drastically reduce the stress to the freezer



• Two independent and insulated inner doors prevent cold air leakage.

ACCESSIBILITY

 A new beak style inner door latch tightly closes the inner door against the



freezer frame. It also helps make opening and closing the door smoother.

• The condenser filter is situated at the bottom right side of the front panel to make filter removal and cleaning easier.

SAFETY

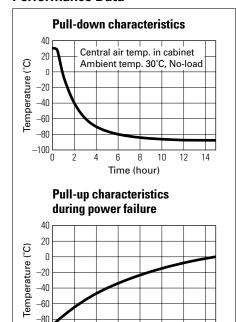
- Alarm lamp and buzzer offer secure warning of power failure or abnormal temperature increase.
- High and low temperature warning provides an audible and visual alarm when the temperature deviates more than ±5°C to ±20°C (adjustable) from the set point.
- · Alarm ring back function ensures that buzzer will resume operation, should alarm conditions continue after it is silenced.
- Microprocessor-controlled filter-clog check function protects the refrigeration circuit.
- New rugged, one-handed outer door latch has a hole to allow a padlock to securely protect valuable samples.





· Control panel with digital display for easy operation.

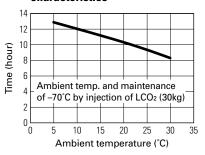
Performance Data



CO₂ backup system operation characteristics

8 10

Time (hour)

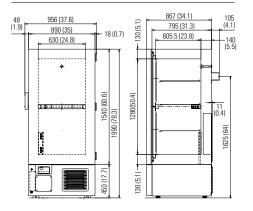


Dimensions

-100

[Unit:mm (inch)]

12 14



Specifications

Model	MDF-U5386S
Temperature range	-50°C to -86°C (1°C increment)
Maximum cooling	−86°C
performance	(Ambient temp. 30°C)
Exterior dimensions	890 x 875 x 1990mm
(W x D x H)	(35.0" x 34.4" x 78.3")
Interior dimensions	630 x 600 x 1280mm
(W x D x H)	(24.8" x 23.6" x 50.4")
Net weight	Approx. 305kg (672 lbs.)
Effective capacity	483 L (17.1 cu.ft.)
Shelf	Stainless steel, Adjustable,
	3 shelves, W608 x D533mm,
	Max. load: 50kg (110 lbs.)/shelf
Access port	17mm diameter, 3 locations
	(back, bottom left/right corner)
Compressor	Hermetic type, Output: 1100 W
	(high stage side), 1100 W (low
	stage side)
Refrigerant	HFC refrigerant
Alarm	High/low temperature,
	Power failure, Filter check,
	Battery check
Remote alarm contact	
	DC 30V, 2A
Accessories	1 set of keys, 1 scraper

*Cooling performance is indicated by the temperature reached at the center of the freezer (at ambient temperature of 30°C with no load). In order to use the freezer at a stable temperature for a long time, it is recommended that the temperature be set to at least 5°C higher than the indicated lowest temperature. In addition, depending on the usage conditions, it may not be possible to reach the indicated lowest temperature.

Caution:

SANYO quarantees the product under certain warranty conditions SANYO in no way shall be responsible for any loss of content or damage to content.

Appearance and specifications are subject to change without notice.

Options



IR-220U

Circular recorder

Rack Capacity For 2-inch box IR-220U For 3-inch box 16

IR-312U

Strip chart recorder

Recorder mounting

MDF-S3085

MTR-85H

bracket



LCO2 backup system CVK-UB2

SANYO DAQ (Data Acquisition) system MTR-480

MTR-2000

SANYO Electric Co., Ltd., Biomedical Division, Gunma is certified for:

Quality management system: ISO9001 / Medical devices quality management system: ISO13485 / Environmental management system: ISO14001 RoHS (European Restriction of Hazardous Substances directives) compliant

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